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### 1 [SpeechSkimmer: a system for interactively skimming recorded speech](#)



Barry Arons

March 1997 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 4 Issue 1

**Publisher:** ACM

Full text available: [pdf\(1.03 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index](#)

[terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 102, Citation Count: 40

Listening to a speech recording is much more difficult than visually scanning a document because of the transient and temporal nature of audio. Audio recordings capture the richness of speech, yet it is difficult to directly browse the stored information. ...


**Keywords:** audio browsing, interactive listening, nonspeech audio, speech as data, speech skimming, speech user interfaces, time compression

## 2 Foraging for information resources in cyberspace: intelligent foraging agent in a distributed network

George E. Mobus, Manuel Aparicio, IV

October CASCON '94: Proceedings of the 1994 conference of the Centre for  
1994 Advanced Studies on Collaborative research

**Publisher:** IBM Press

Full text available:  [pdf\(655.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 17, Citation Count: 0


Recent advances in autonomous robotic control may be applied to the problem of designing intelligent, mobile agents for cyberspace. This paper examines the field of behavior-based reactive systems (BBRS) as used in robotics that may be applicable in ...

## 3 Integrating cognitive levels into the interface

Deborah E. Swain

October CASCON '94: Proceedings of the 1994 conference of the Centre for  
1994 Advanced Studies on Collaborative research

**Publisher:** IBM Press


Full text available:  [pdf\(28.92 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 50, Citation Count: 0

This paper describes how research in the field of Cognitive Science offers a methodology for examining how information processing systems (IPSS), such as humans and computers, acquire and use knowledge. As an example, the paper illustrates how computer ...

## 4 Software process modeling and execution within virtual environments

 John C. Doppke, Dennis Heimbigner, Alexander L. Wolf  
January ACM Transactions on Software Engineering and Methodology  
1998 (TOSEM), Volume 7 Issue 1

**Publisher:** ACM

Full text available:  [pdf\(232.51 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 84, Citation Count: 8

In the past, multiuser virtual environments have been developed as venues for entertainment and social interaction. Recent research focuses instead on their utility in carrying out work in the real world. This research has identified the importance of ...

**Keywords:** MOO, MUD, PROMO, software process, tools, virtual environments

## 5 [A hypermedia version control framework](#)



David L. Hicks, John J. Leggett, Peter J. Nürnberg, John L. Schnase

April 1998 ACM Transactions on Information Systems (TOIS), Volume 16 Issue 2

**Publisher:** ACM

Full text available: [pdf\(1.58 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 78, Citation Count: 18

The areas of application of hypermedia technology, combined with the capabilities that hypermedia provides for manipulating structure, create an environment in which version control is very important. A hypermedia version control framework has been designed ...

**Keywords:** [hyperbase management system](#), [hypermedia](#)

## 6 [Structured document storage and refined declarative and navigational access mechanisms in HyperStorM](#)

Klemens Böhm, Karl Aberer, Erich J. Neuhold, Xiaoya Yang

November 1997 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 6 Issue 4

**Publisher:** Springer-Verlag New York, Inc.

Full text available: [pdf\(184.18 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 14, Citation Count: 11

The combination of SGML and database technology allows to refine both declarative and navigational access mechanisms for structured document collection: with regard to declarative access, the user can formulate complex information needs without knowing ...

**Keywords:** [Document query languages](#), [Navigation](#), [OODBMSs](#), [SGML](#)

## 7 [Scalable feature selection, classification and signature generation for organizing large text databases into hierarchical topic taxonomies](#)

Soumen Chakrabarti, Byron Dom, Rakesh Agrawal, Prabhakar Raghavan

August 1998 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 7 Issue 3

**Publisher:** Springer-Verlag New York, Inc.

Full text available: [pdf\(281.37 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 83, Citation Count: 25

We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, ...

## 8 Post-WIMP user interfaces



Andries van Dam

February Communications of the ACM, Volume 40 Issue 2  
1997

**Publisher:** ACM

Full text available: [pdf\(456.56 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 49, Downloads (12 Months): 248, Citation Count: 14

## 9 Spatial interpretation of domain objects integrated into a freeform electronic whiteboard



Thomas P. Moran, William van Melle, Patrick Chiu

November UI ST '98: Proceedings of the 11th annual ACM symposium on User interface software and technology  
1998

**Publisher:** ACM

Full text available: [pdf\(130.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 57, Citation Count: 8

Keywords: customization, freeform interaction, gestural interfaces user interface design, implicit stucture, informal systems, list structures, metting support tools, pen-based systems, recognition-based systems, tailorability, witeboard metaphor

## 10 Surfing the movie space: advanced navigation in movie-only hypermedia



Jörg Geißler

January MULTIMEDIA '95: Proceedings of the third ACM international conference  
1995 on Multimedia

**Publisher:** ACM

Full text available: [html\(57.79 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 19, Citation Count: 6

Keywords: browsing and navigation, hypermedia, interactive movies, media integration and synchronization, movie structure, user interfaces

11 Strategic directions in database systems—breaking out of the box



Avi Silberschatz, Stan Zdonik

December 1996 ACM Computing Surveys (CSUR), Volume 28 Issue 4

**Publisher:** ACM

Full text available: [pdf\(222.64 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 46, Downloads (12 Months): 190, Citation Count: 12

12 Using the Internet to improve knowledge diffusion in medicine



William M. Detmer, Edward H. Shortliffe

August 1997 Communications of the ACM, Volume 40 Issue 8

**Publisher:** ACM

Full text available: [pdf\(576.05 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 76, Citation Count: 3

13 Web-based development of complex information products



Roy T. Fielding, E. James Whitehead, Jr., Kenneth M. Anderson, Gregory A. Bolcer, Peyman Oreizy, Richard N. Taylor

August 1998 Communications of the ACM, Volume 41 Issue 8

**Publisher:** ACM

Full text available: [pdf\(200.01 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 104, Citation Count: 17

14 Drawings on napkins, video-game animation, and other ways to program computers



Ken Kahn

August 1996 Communications of the ACM, Volume 39 Issue 8

**Publisher:** ACM

Full text available: [pdf\(1.64 MB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 98, Citation Count: 7

## 15 [The virtual reality modeling language and Java](#)



Don Brutzman

June 1998 Communications of the ACM, Volume 41 Issue 6

**Publisher:** ACM

Full text available: [pdf\(763.87 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 99, Citation Count: 7

## 16 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 CASCON '97: Proceedings of the 1997 conference of the Centre for  
1997 Advanced Studies on Collaborative research

**Publisher:** IBM Press

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 56, Downloads (12 Months): 761, Citation Count: 0

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

## 17 [Customizing information capture and access](#)



Daniela Rus, Devika Subramanian

January 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue  
1

**Publisher:** ACM

Full text available: [pdf\(1.26 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 65, Citation Count: 6

This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels ...

**Keywords:** information gathering, software agents, table recognition

## 18 [Frontiers in electronic media](#)



Kim H. Veltman

July 1997

interactions, Volume 4 Issue 4

**Publisher:** ACM

Full text available: [pdf\(11.63](#)



Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#),

[review](#)

**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 119, Citation Count: 3

## 19 [vic: a flexible framework for packet video](#)



Steven McCanne, Van Jacobson

January

MULTIMEDIA '95: Proceedings of the third ACM international conference

1995

on Multimedia

**Publisher:** ACM

Full text available: [html\(67.64](#)



Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 48, Citation Count: 82

**Keyw ords:** conferencing protocols, digital video, image and video compression and processing, multicasting, networking and communication

## 20 [Distributed information management in the National HPCC Software Exchange](#)



Shirley Browne, Jack Dongarra, Geoffrey C. Fox, Ken Hawick, Ken Kennedy, Rick

Stevens, Robert Olson, Tom Rowan

December

Supercomputing '95: Proceedings of the 1995 ACM/ IEEE

1995

conference on Supercomputing (CDROM) - Volume 00, Volume 00

**Publisher:** ACM

Full text available: [html\(42.96](#)



Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 3, Citation Count: 0

Currently, most approaches to retrieving textual materials from scientific databases depend on a lexical match between words in users' requests and those in or assigned to documents in a database. Because of the tremendous diversity in the words people ...

**Keyw ords:** indexing, information, latent, matrices, retrieval, semantic, singular value decomposition, sparse, updating

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